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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/774,024	02/06/2004	Genichi Taguchi	ASI-10003/03	7722	
25006 75	590 06/09/2005		EXAMINER		
GIFFORD, KRASS, GROH, SPRINKLE & CITKOWSKI, P.C			LAU, TUNG S		
	PO BOX 7021 TROY, MI 48007-7021			PAPER NUMBER	
,			2863		
				DATE MAILED: 06/09/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No	A == 11 = == 44 = >				
	Application No.	Applicant(s)				
Office Action Summary	10/774,024	TAGUCHI ET AL.				
Omee Adden Cammary	Examiner	Art Unit				
TI MAILING DATE ALL.	Tung S. Lau	2863				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a ly within the statutory minimum of thin will apply and will expire SIX (6) MOt e, cause the application to become Al	reply be timely filed rly (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 06 F	ebruary 2004.					
· _ ·						
· <u> </u>	3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims	•					
· _						
4) Claim(s) 1-17 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-17</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
	·					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 						
Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) (s)/Mail Date				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>See office action</u> .		Informal Patent Application (PTO-152)				

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DETAILED ACTION

Information Disclosure Statement

1. The information disclose statement filed 02/06/2004 and 04/12/2004 fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy; each publication or that portion which caused it to be listed; and all other information or that portion which caused it to be listed. Item Taguchi et al. 'the mahalanobis Taguchi system' is missing from the application file. Applicant is required to submit a legible copy of 'the mahalanobis Taguchi system'. It has been placed in the application file, but the information referred to therein has not been considered.

Prior art cited

Cao et al. (U.S. Patent 6,463,341) discloses an orthogonal functional basis method for function approximation is disclosed. Starting with the orthogonal least squares method, a new subset selection method for selecting a set of appropriate basis functions is explained where, instead of picking a subset from a given functional basis, the subset is selected from a combination of functional basis evolved from a set of heterogeneous basis functions. The method results in a more efficient neural network.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

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3. Claims 1-17 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

In the specification of the applicant, page 20, line 1-9: According to the present invention, a method of making predictions using Gram-schmidt (GS) variables without calculating the Mahalanobis distance is provided. This method is useful in situations where the reference group consists of the variables with small or even zero standard deviation or variance. In the most extreme case <a href="where if variables have zero standard then correlation with other variables are not possible and hence deviations then correlations calculation of Mahalanobis distances is not possible, although variables with zero standard deviations represent very important patterns.

The applicant discloses that when a standard deviation is zero, calculation with other variables are not possible, that conflict with claims 1-17 which claims calculation of other variable when the standard deviation is zero.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tung S Lau whose telephone number is 571-272-2274. The examiner can normally be reached on M-F 9-5:30. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor.

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John Barlow can be reached on 571-272-2269. The fax phone numbers for the organization where this application or proceeding is assigned is 703-872-9306 Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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